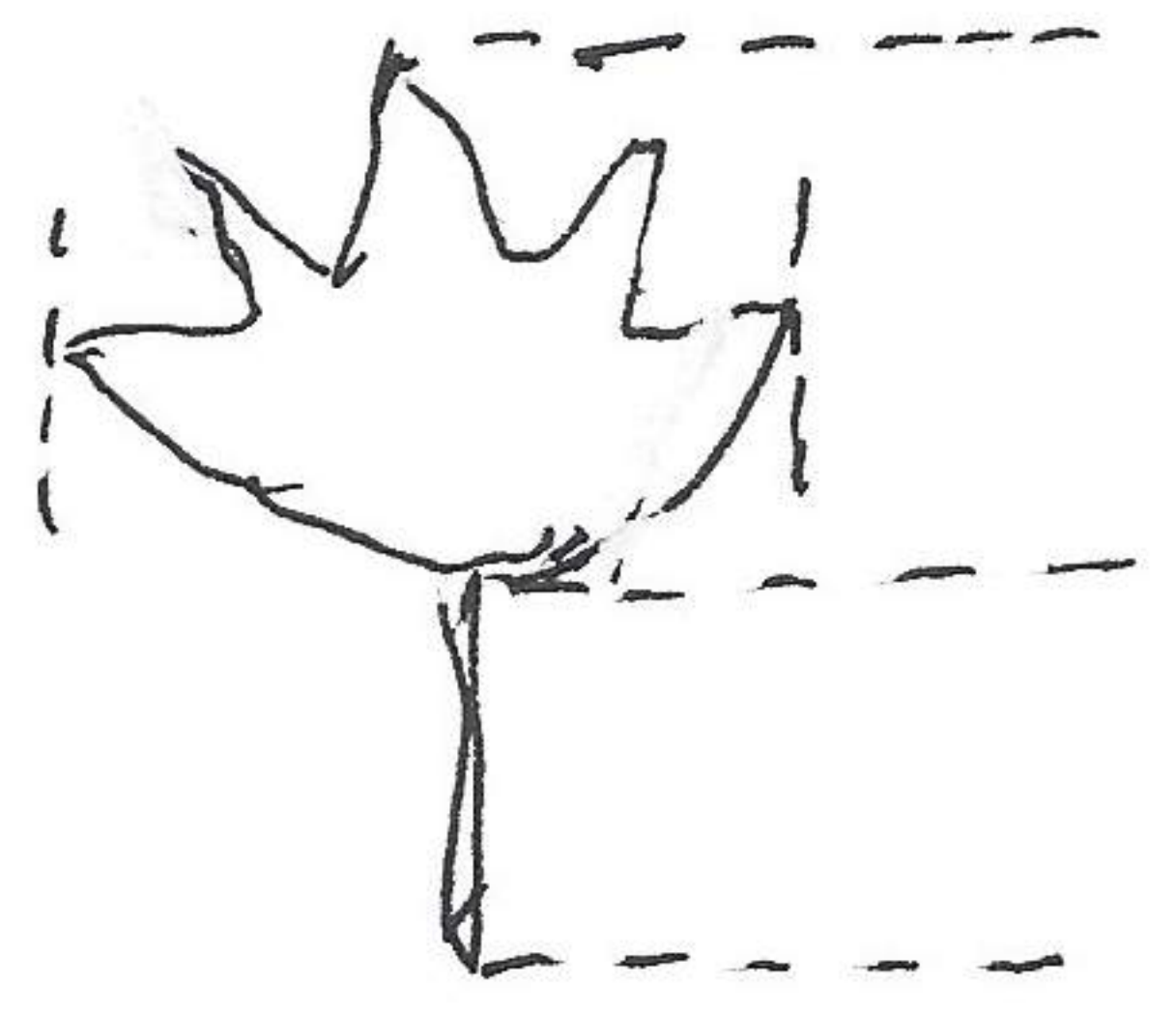


measured the largest leaves of several species of trees;

	height	petiole	width
large-leafed maple	2 1/2	1 1/2	18
Thimbleberry	9 3/4	6 1/4	12 1/2
red alder	9 3/4	1 1/4	5 3/4
cottonwood, black	8 1/2	1 1/2	5 3/4
" "	7 1/2	2 1/4	3 3/4
" "	6	3 3/4	6 1/4



The above, except the thimbleberry, are yellow. The thimbleberries are green.

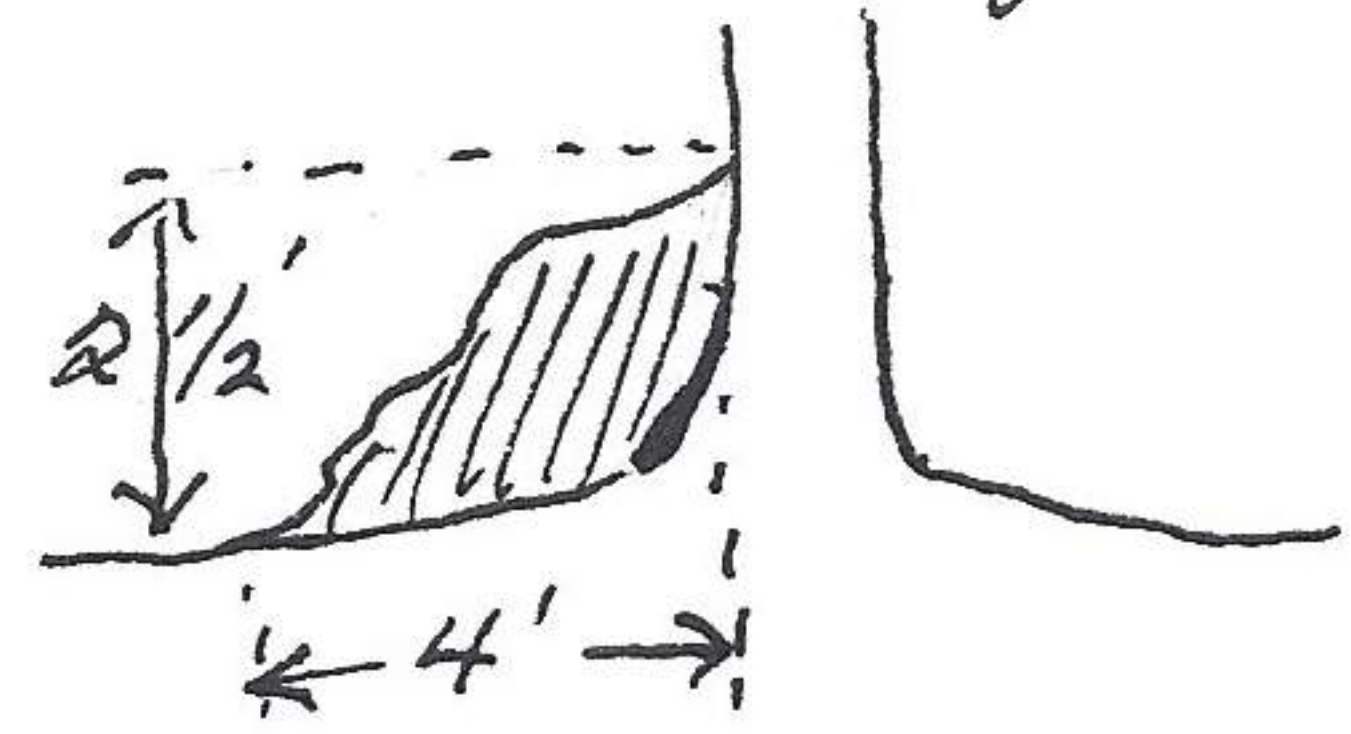
Cultus Lake, Thousand Trails, Canada.

Oct. 13, 1989

Rain last night but Frost Creek clear. Waterouzel observed near where creek enters Cultus Lake. Examined the accumulation of chips and debris at base of tree extensively excavated by the pileated woodpecker.

Left camp 10:34 A.M.

955.5 Hope Slide on Princeton highway.



12:15 P.M. Cottonwood is predominately yellow and unusually bright against the green conifers.

Pass on highway in spruce zone and fewer cottonwoods.

Alison Pass is headwaters of Skagit River that enters sound near La Conner.

mule deer Campgrounds, Manning Provincial Park, Canada

Oct. 14, 1989

At 7:06 A.M. Temp. 30°F. and started to snow in large flakes.

8:30 A.M. snow now covering tables but melting continuously.

Collected 3 conglomerate rocks from river bed:

891014-1 Conglomerate rock

891014-2 " "

891014-3 " "

Red cedar, Douglas fir, lodgepole pine, black cottonwood and others in area.

Rove in camp.

9:30 A.M. Increase snow of large flakes and now covers ground, Waterouzel and dark-eyed juncos in camp.

Left Mule Deer Camp 10:10 A.M. at mileage 65995.2. First aspen at E end Manning Park.